

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P580366

Luminaire Tested: **HVSL2-3-LD4-STD-35-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580366  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/16/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: HVSL2-3-LD4-STD-35-UNV-O-EDD  
Description: 3 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

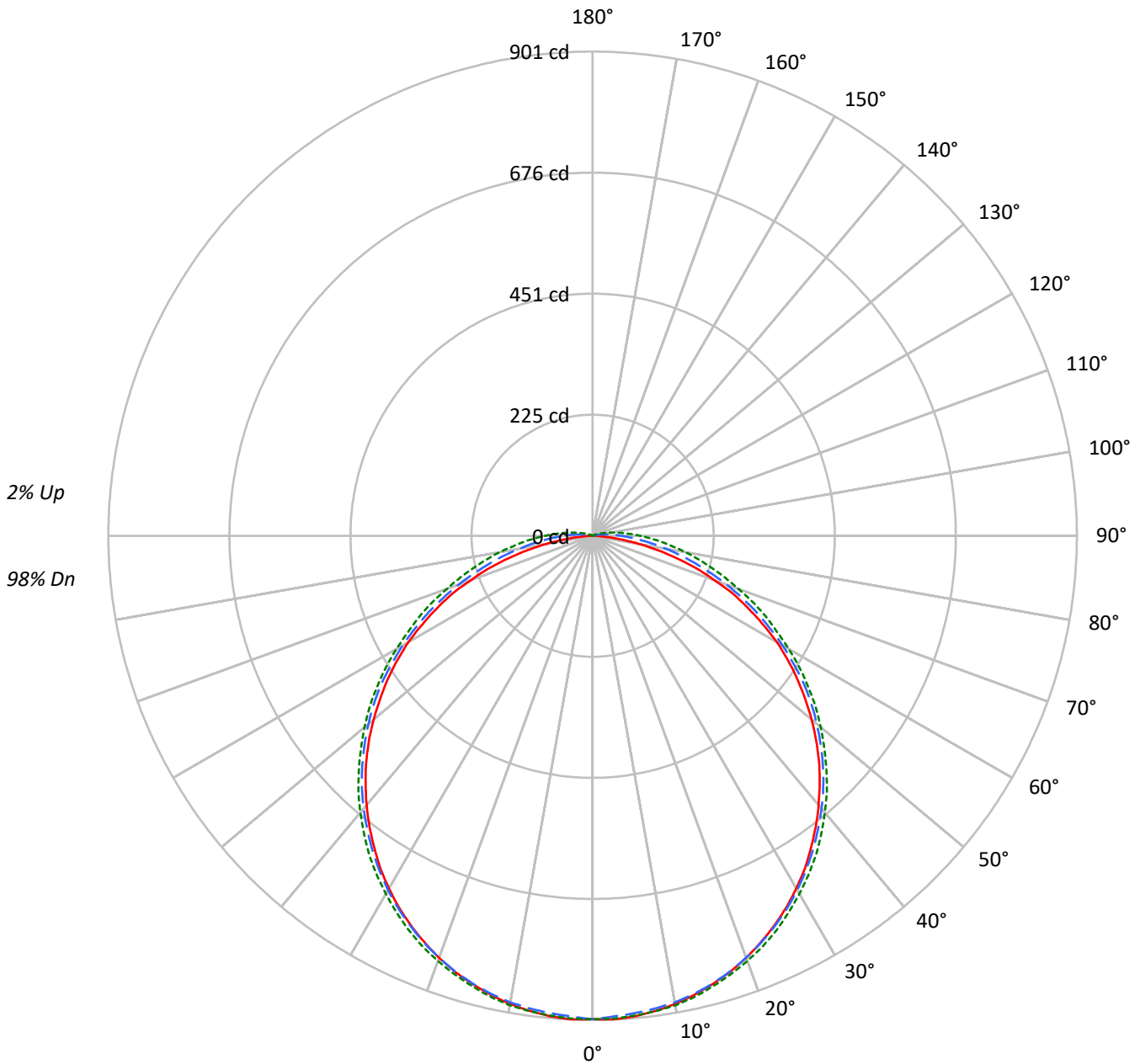
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2720.0 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 24.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101					98															
1	108	102	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83					81															
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69					67															
3	89	78	69	63	86	76	68	62	73	66	61	70	64	59	67	62	58					56															
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	54	50					47															
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43					41															
6	69	55	46	40	67	54	46	39	52	45	39	50	44	38	49	43	38					36															
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34					32															
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30					28															
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27					25															
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25					23															

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	19366	19366	19366
5°	19306	18094	17809
10°	19154	17030	16485
15°	18965	16022	15246
20°	18764	15049	14137
25°	18525	14124	13116
30°	18254	13225	12124
35°	17917	12331	11201
40°	17566	11451	10272
45°	17187	10565	9361
50°	16701	9645	8463
55°	16173	8707	7565
60°	15541	7661	6637
65°	14547	6586	5753
70°	13133	5457	4843
75°	11147	4323	4018
80°	8239	3276	3259
85°	4230	2303	2541



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.1	3.1
10°-20°	244.2	9.0
20°-30°	370.5	13.6
30°-40°	448.0	16.5
40°-50°	467.5	17.2
50°-60°	427.4	15.7
60°-70°	333.2	12.2
70°-80°	208.4	7.7
80°-90°	94.7	3.5
90°-100°	31.7	1.2
100°-110°	8.0	0.3
110°-120°	1.2	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	699.8	25.7
0°-40°	1147.9	42.2
0°-60°	2042.8	75.1
0°-90°	2679.1	98.5
90°-120°	40.9	1.5
90°-150°	40.9	1.5
90°-180°	41.0	1.5
0°-180°	2720.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	900	900	900	900	900	
5°	898	896	892	896	896	85
15°	864	865	863	868	867	244
25°	800	801	802	808	810	369
35°	708	712	714	722	725	443
45°	596	601	606	612	615	459
55°	465	471	479	486	490	416
65°	320	325	336	350	355	316
75°	162	172	197	220	229	172
85°	28	52	89	118	128	35
90°	0	19	52	79	88	1
95°	0	5	27	49	57	0
105°	0	1	4	13	18	0
115°	1	1	1	2	3	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	899.6	899.6	899.6	899.6	899.6
2.5°	900.7	899.4	895.4	899.4	899.2
5°	897.7	896.0	892.0	896.2	896.2
7.5°	891.8	891.1	887.5	892.4	892.4
10°	884.8	884.6	881.6	886.9	887.1
12.5°	875.0	875.9	873.1	878.2	878.8
15°	863.6	865.0	862.7	867.6	867.4
17.5°	851.0	851.9	850.2	855.7	855.5
20°	835.6	836.6	835.4	841.1	841.7
22.5°	818.4	819.9	819.7	825.6	827.3
25°	800.1	800.8	801.6	808.4	809.7
27.5°	780.0	781.1	782.5	788.7	790.0
30°	757.9	759.6	761.3	767.7	769.4
32.5°	734.6	736.3	738.4	746.7	747.6
35°	708.3	711.5	714.5	721.7	724.7
37.5°	682.0	686.1	688.8	696.4	698.8
40°	654.2	658.3	662.7	670.8	672.3
42.5°	625.2	629.9	635.2	642.4	644.9
45°	595.9	601.2	606.1	612.0	615.0
47.5°	564.3	569.6	575.6	582.4	584.3
50°	531.7	537.8	544.2	550.5	553.9
52.5°	498.2	505.6	512.8	519.6	522.8
55°	465.1	470.6	479.3	486.3	489.5
57.5°	430.7	435.4	443.2	454.7	456.4
60°	395.7	400.0	408.0	417.4	421.2
62.5°	357.1	362.9	371.3	383.2	386.6
65°	319.6	325.1	336.3	349.7	355.2
67.5°	283.3	285.2	299.7	313.7	322.6
70°	240.5	247.7	264.5	281.6	288.4
72.5°	203.6	210.8	229.3	249.4	257.9
75°	161.8	171.8	196.8	220.3	228.6
77.5°	125.1	136.2	167.1	190.9	200.4
80°	87.4	104.6	138.3	165.0	175.4
82.5°	54.9	76.1	112.2	140.2	149.3
85°	28.0	51.7	88.9	117.5	127.9
87.5°	7.4	33.5	69.1	96.5	107.1
90°	0.2	19.3	52.4	78.7	88.2
92.5°	0.2	10.8	39.0	62.6	72.3
95°	0.2	5.1	27.1	49.2	56.8
97.5°	0.2	2.1	18.7	37.1	44.7
100°	0.2	1.1	11.9	26.9	33.5
102.5°	0.4	0.6	7.4	19.3	24.6
105°	0.4	0.6	4.5	13.1	17.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.8	3.6	5.3
115°	0.6	0.6	0.8	2.3	3.4
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	0.4	0.6	2.5	8.9	12.1
110°	0.6	0.6	1.5	5.5	8.1



(END OF REPORT)